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MATERIAL SAFETY  
DATA SHEET

3M  
3M Center  
St. Paul, Minnesota  
55144-1000  
1-800-364-3577 or (651) 737-6501 (24 hours)

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DIVISION: 3M SPECIALTY MATERIALS

TRADE NAME:

FC-1296 3M (TM) Hydrophilic Polymer Melt Additive

ID NUMBER/U.P.C.:

98-0212-2713-1 00-51135-63071-6 98-0212-2714-9 00-51135-63072-  
3

98-0212-2842-8 00-51135-70299-4

ISSUED: March 15, 2000

SUPERSEDES: December 16, 1999

DOCUMENT: 09-0639-6

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1. INGREDIENT  
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C.A.S. NO.

PERCE

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FLUOROCHEMICAL POLYMER +(6301P)..... TradeSecret 49 -  
50  
HYDROCARBON SURFACTANT +(6302P)..... TradeSecret 49 -

50

RESIDUAL ORGANIC FLUOROCHEMICALS..... Mixture 0 -  
1

1 The components of this product are in compliance with the chemical notification requirements of TSCA. All applicable chemical ingredients in this material are listed on the European Inventory of Existing Chemical Substances (EINECS), or are exempt polymers whose monomers are listed on EINECS.

New Jersey Trade Secret Registry Number (EIN) 04499600-+

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2. PHYSICAL DATA  
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BOILING POINT:..... > 150 C  
VAPOR PRESSURE:..... 24.0 mmHg  
                                @ 55 C  
VAPOR DENSITY:..... N/A  
EVAPORATION RATE:..... N/A  
SOLUBILITY IN WATER:..... slight  
SPECIFIC GRAVITY:..... 1.135 g/ml  
                                at 25 C  
PERCENT VOLATILE:..... N/A  
pH:..... N/A  
VISCOSITY:..... 200 centipoise  
                                at 25 C  
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Abbreviations: N/D - Not Determined N/A - Not Applicable CA -  
Approximately

MSDS: FC-1296 3M (TM) Hydrophilic Polymer Melt Additive  
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2. PHYSICAL DATA (continued)  
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MELTING POINT:..... N/A

APPEARANCE AND ODOR:

Amber to dark liquid. Slight odor.

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3. FIRE AND EXPLOSION HAZARD DATA  
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FLASH POINT:..... None  
FLAMMABLE LIMITS - LEL:..... N/A  
FLAMMABLE LIMITS - UEL:..... N/A  
AUTOIGNITION TEMPERATURE:..... N/A

EXTINGUISHING MEDIA:

Water, Carbon dioxide, Dry chemical, Foam

SPECIAL FIRE FIGHTING PROCEDURES:

Wear full protective clothing, including helmet, self-contained, positive pressure or pressure demand breathing apparatus, bunker coat and pants, bands around arms, waist and legs, face mask, and protective covering for exposed areas of the head.

UNUSUAL FIRE AND EXPLOSION HAZARDS:

See Hazardous Decomposition section for products of combustion.

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4. REACTIVITY DATA  
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STABILITY: Stable

INCOMPATIBILITY - MATERIALS/CONDITIONS TO AVOID:

Strong Oxidizing Agents, Reducing Agents.

HAZARDOUS POLYMERIZATION: Hazardous polymerization will not occur.

HAZARDOUS DECOMPOSITION PRODUCTS:

Carbon Monoxide and Carbon Dioxide, Hydrogen Fluoride, Toxic Vapors,  
Gases or Particulates.

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5. ENVIRONMENTAL INFORMATION  
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SPILL RESPONSE:

Observe precautions from other sections. Ventilate area. Contain spill. Cover with absorbent material. Collect spilled material. Clean up residue with an appropriate organic solvent. Read and follow

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5. ENVIRONMENTAL INFORMATION (continued)  
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safety precautions on the solvent label and MSDS. Place in a closed container.

RECOMMENDED DISPOSAL:

Incinerate in an industrial or commercial facility in the presence of

a combustible material. Combustion products will include HF.

ENVIRONMENTAL DATA:

Not determined.

REGULATORY INFORMATION:

Volatile Organic Compounds: N/D.

VOC Less H2O & Exempt Solvents: N/A.

Since regulations vary, consult applicable regulations or authorities before disposal.

U.S. EPA Hazardous Waste Number = None (Not U.S. EPA Hazardous).

OTHER ENVIRONMENTAL INFORMATION:

This product contains one or more organic fluorochemicals that have the potential to resist degradation and persist in the environment.

EPCRA HAZARD CLASS:

FIRE HAZARD: No PRESSURE: No REACTIVITY: No ACUTE: Yes CHRONIC: No

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6. SUGGESTED FIRST AID  
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EYE CONTACT:

Immediately flush eyes with large amounts of water. Get immediate medical attention.

SKIN CONTACT:

Immediately wash skin with soap and large amounts of water. Remove contaminated clothing. If signs/symptoms occur, call a physician. Wash contaminated clothing before reuse and dispose of contaminated shoes.

INHALATION:

If signs/symptoms occur, remove person to fresh air. If signs/symptoms continue, call a physician.

IF SWALLOWED:

Do not induce vomiting. Drink two glasses of water. Call a physician.

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7. PRECAUTIONARY INFORMATION  
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EYE PROTECTION:

Avoid eye contact. Avoid eye contact with vapor, spray, or mist.  
The following should be worn alone or in combination, as appropriate,  
to prevent eye contact: Wear vented goggles.

SKIN PROTECTION:

Avoid skin contact. Wear appropriate gloves when handling this material. A pair of gloves made from the following material(s) are recommended: butyl rubber.

RECOMMENDED VENTILATION:

Use with appropriate local exhaust ventilation. Use in a well-ventilated area. If exhaust ventilation is not adequate, use appropriate respiratory protection. Provide ventilation adequate to control vapor concentrations below recommended exposure limits and/or control spray or mist.

RESPIRATORY PROTECTION:

Avoid breathing of airborne material. Select one of the following  
NIOSH approved respirators based on airborne concentration of contaminants and in accordance with OSHA regulations: Half-mask organic vapor respirator with dust/mist prefilter, full-face organic



vapor respirator with dust/mist prefilter.

#### PREVENTION OF ACCIDENTAL INGESTION:

Do not eat, drink or smoke when using this product. Wash exposed areas thoroughly with soap and water. Wash hands after handling and before eating.

#### RECOMMENDED STORAGE:

Store at room temperature. Keep container closed when not in use

#### FIRE AND EXPLOSION AVOIDANCE:

No smoking while handling this material.

HMIS HAZARD RATINGS: HEALTH: 2 FLAMMABILITY: 0 REACTIVITY: 0  
PERSONAL PROTECTION: X (See precautions, section 7.)

#### EXPOSURE LIMITS

INGREDIENT	VALUE	UNIT	TYPE	A
UTH SKIN*				
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FLUORO-CHEMICAL POLYMER +(6301P).....	NONE	NONE	NONE	N
ONE				
HYDROCARBON SURFACTANT +(6302P).....	NONE	NONE	NONE	N
ONE				
RESIDUAL ORGANIC FLUORO-CHEMICALS.....	0.1	MG/M3	TWA	3
M				
Y				

\* SKIN NOTATION: Listed substances indicated with 'Y' under SKIN refer to the potential contribution to the overall exposure by the cutaneous route including mucous membrane and eye, either by airborne or, more particularly, by direct contact with the substance. Vehicles can alter skin absorption.

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# EXPOSURE LIMITS (continued)

INGREDIENT	VALUE	UNIT	TYPE	A
UTH				
SKIN*				
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## SOURCE OF EXPOSURE LIMIT DATA:

- 3M: 3M Recommended Exposure Guidelines
- NONE: None Established

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8. HEALTH HAZARD DATA  
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EYE CONTACT:

Mild Eye Irritation: signs/symptoms can include redness, swelling  
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pain, and tearing.

SKIN CONTACT:

Mild Skin Irritation: signs/symptoms can include redness, swelling,  
and itching.

This material was found to be a possible skin sensitizer in a guinea  
pig maximization assay. However, since the material was tested as a  
mixture, the specific sensitizer can not be identified and may be an  
impurity. No evidence of skin sensitization was observed in a Human  
Repeat Insult Patch Test (HRIPT) with polypropylene treated with 4  
%  
FC-1296.

INHALATION:

Irritation (upper respiratory): signs/symptoms can include soreness  
of the nose and throat, coughing and sneezing.

IF SWALLOWED:

Animal studies conducted on organic fluorochemicals which are present  
in this product indicate effects including liver disturbances, we

ight

loss, loss of appetite, lethargy, and neurological, pancreatic, adrenal and hematologic effects. There are no known human health effects from anticipated exposure to these organic fluorochemical

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when used as intended and instructed.

Ingestion may cause:

Irritation of Gastrointestinal Tissues: signs/symptoms can include pain, vomiting, abdominal tenderness, nausea, blood

in

vomit, and blood in feces.

#### OTHER HEALTH HAZARD INFORMATION:

A Product Toxicity Summary Sheet is available.

This product contains one or more organic fluorochemicals that have

the potential to be absorbed and remain in the body for long periods

of time, either as the parent molecule or as metabolites, and may accumulate with repeated exposures. There are no known human health

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8. HEALTH HAZARD DATA (continued)

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effects from anticipated exposure to these organic fluorochemical  
 s when used as intended and instructed.

The presence of organic fluorochemicals in the blood of the gener  
 al population and subpopulations, such as workers, has been publishe  
 d dating back to the 1970's. 3M's epidemiological study of its own  
 workers indicates no adverse effects.

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 SECTION CHANGE DATES  
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HEADING	SECTION CHANGED SINCE December 16, 1999	ISSUE
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Approximately

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to  
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 for  
 user's method of use or application. Given the variety of factors  
 that  
 can affect the use and application of a 3M product, some of which a  
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